Across the universe

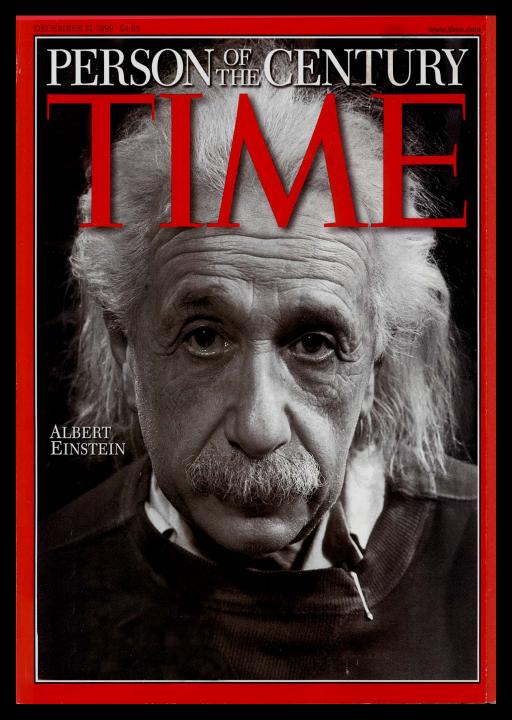
Rocky Kolb The University of Chicago Spring 2005

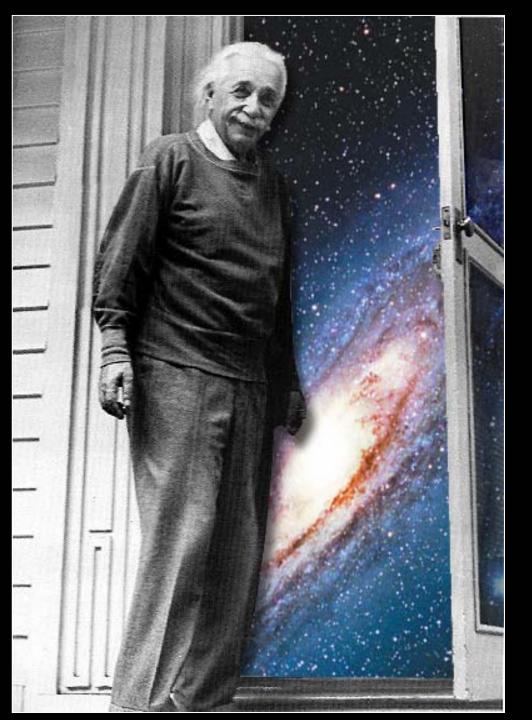
## **Britney-Free Class**



Hubble Ultra-deep fic

Rocky Kolb The University of Chicago Spring 2005





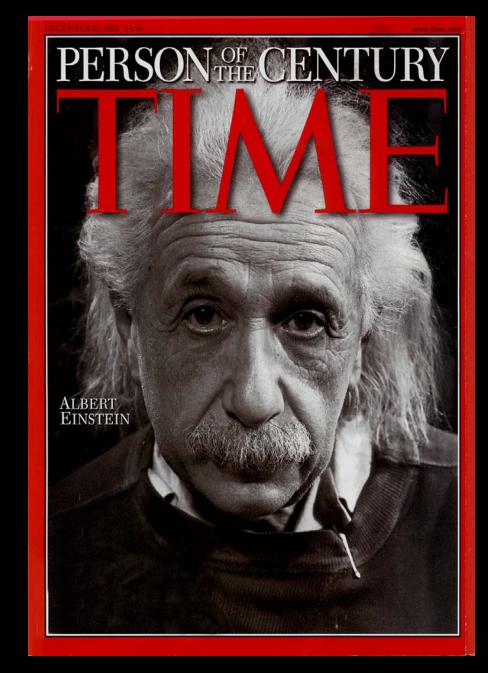
"The most beautiful thing we can experience is the mysterious. It is the source of all true art and all science. Those to whom this emotion is a stranger, who can no longer pause to wonder and stand rapt in awe, are as good as dead: their eyes are closed."

**Albert Einstein** 

THE AUTHORIZED COMPANION TO THE PUBLIC TELEVISION SERIES Stephen Hawking's Universe THE COSMOS EXPLAINED DAVID FILKIN FOREWORD. BY STEPHEN HAWKING

# It's your universe too!

### **Edwin Hubble**





Einstein, ca. 1952

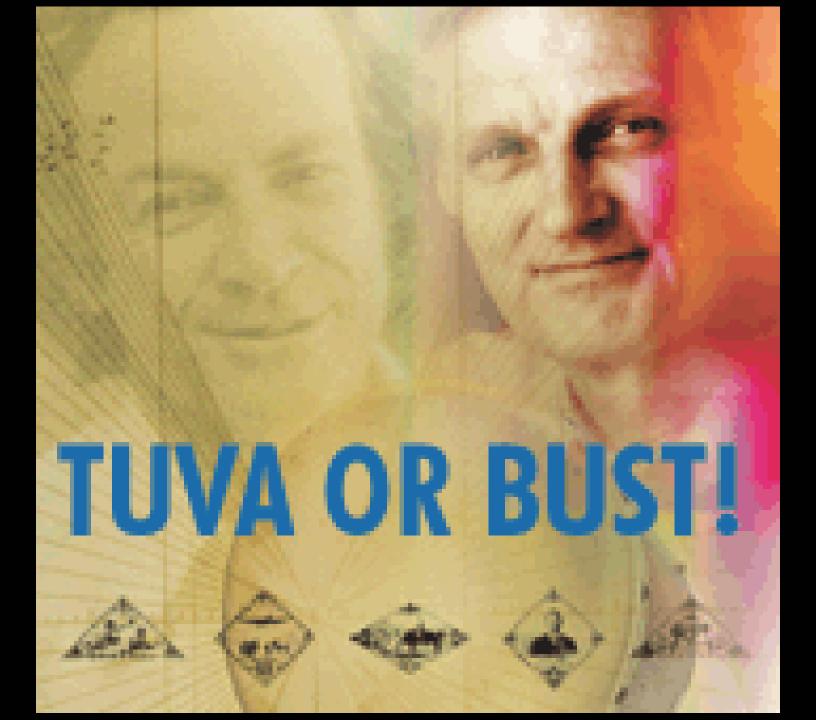
Einstein, ca. 1912



"When the Special Theory of Relativity began to germinate in me, I was visited by all sorts of nervous conflicts... I used to go away for weeks in a state of confusion."

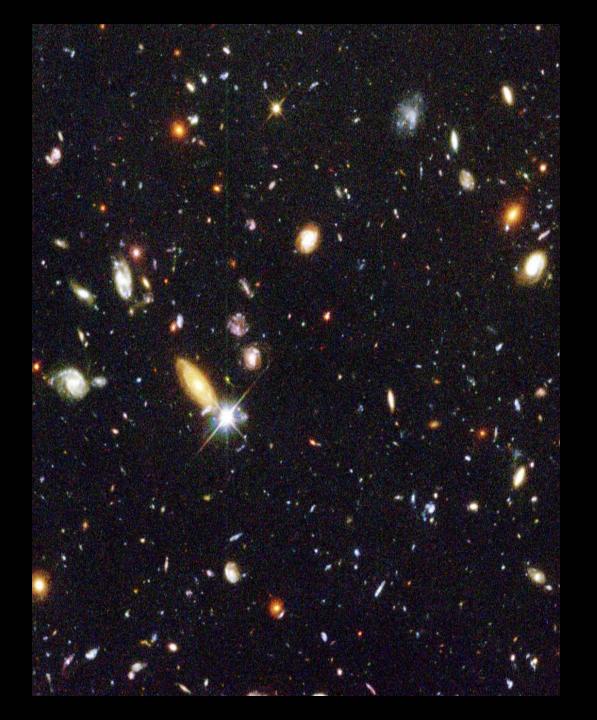
"A storm broke loose in my mind."

Einstein, ca. 1905



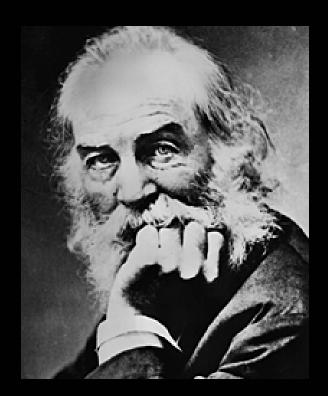
# YORK TIMES BESTSELLER "SURELY YOU'RE JOKING, MR. FEYNMAN!" Adventures of a Curious Character "Quintessential Feynman-funny, brilliant, bawdy."-The New Yorker

RICHARD P. FEYNMAN



# Every cubic inch of space is a miracle!

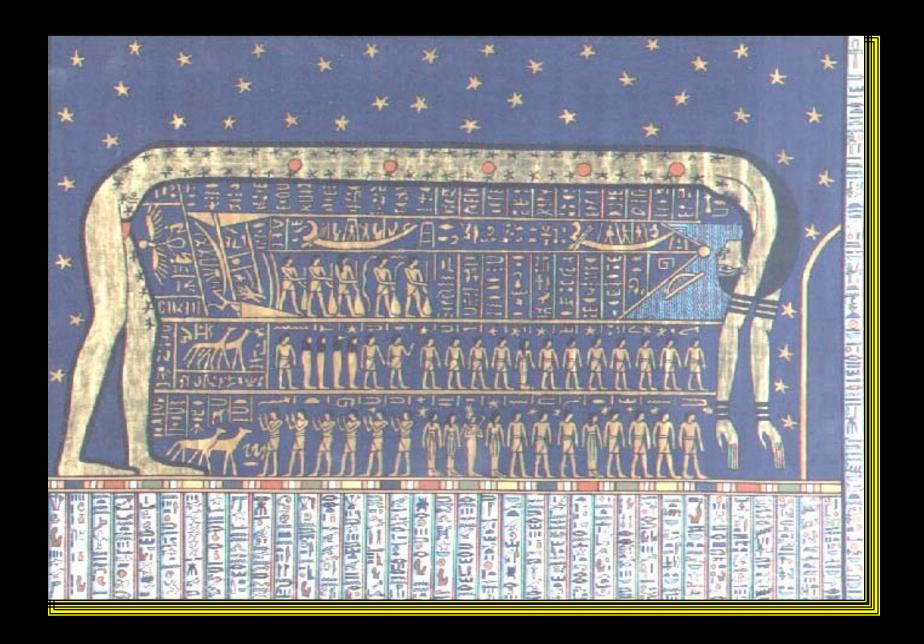
- cosmic radiation
- virtual particles
- Higgs potential
- dark matter
- dark energy



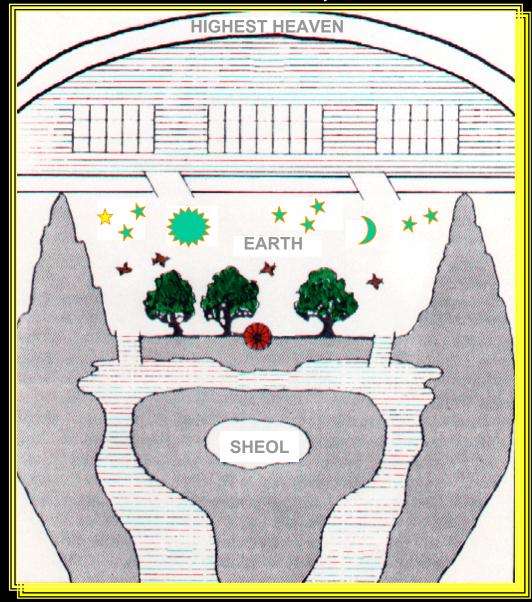
# cosmology cosmetology

cosmos (κόσμος)

#### A view of the universe, circa 2005 B.C.



#### A view of the universe, circa 1005 A.D.\*



<sup>\*</sup>and circa 2005 A.D. in parts of Kansas